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#### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

#### LISTING OF CLAIMS:

1. (currently amended): A process for preparing a compound of formula (IA):

wherein R1 and R2 are each selected from the group consisting of

- (1) hydrogen,
  - (2) C1-10 alkyl,
  - (3) C3-8 cycloalkyl, and
  - (4) -(CH2)n -phenyl

wherein n is 1 or 2, and said alkyl, cycloalkyl and phenyl are unsubstituted or substituted with one or more halogen, hydroxy, C1.6 alkyl or C1.6 alkoxy;

X is selected from the group consisting of

- (1) halogen, and
- (2) hydrogen; andor

pharmaceutically acceptable salts thereof,

comprising:

(A) oxidizing a compound of formula (II):

wherein R<sup>3</sup> is selected from the group consisting of

- (1)-OH,
- (2) -O-Ra, and
- (3) -NRbRc,

wherein Ra is selected from the group consisting of

- (a) C1-10 alkyl, and
- (b) C3-8 cycloalkyl,

and Ra is unsubstituted or substituted with one or more

- (i) C1-10 alkoxy,
- (ii) hydroxy,
- (iii) halogen,
- (iv) SRd.
- (v) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen,
- (vi) heteroaryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (vii) NReRf;

Rb, Rc, Re and Rf are selected from the group consisting of

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- (a) halogen
- (b) C<sub>1-10</sub> alkyl, and
- (c) C3\_8 cycloalkyl,

and when Rb, ,Rc, Re and Rf are  $\rm C_{1-10}$  alkyl or C<sub>3-8</sub> cycloalkyl, said  $\rm C_{1-10}$  alkyl and C<sub>3-8</sub> cycloalkyl are unsubstituted or substituted with one or more

- (i) hydroxy,
- (ii) C<sub>1-10</sub> alkoxy,
- (iii) SRd,
- (iv) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (v) heteroaryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (vi) NRgRh;

wherein Rg and Rh are hydrogen, C1-10 alkyl or C3-8 cycloalkyl;

or Rb and Rc, together with the N atom to which they are attached, form a group

wherein r is 1 or 2, and the NR<sup>b</sup>R<sup>c</sup> group may be unsubstituted or substituted at the ring carbon atoms by one or more

(i) hydroxy,

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- (ii) C1-10 alkoxy,
- (iii) SRd,
- (iv) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1\text{--}10}$  alkoxy,  $C_{1\text{--}10}$  alkyl or halogen, and
- (v) heteroaryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (vi) NRgRh,

Rd is hydrogen or C1-10 alkyl; and

R4 is selected from the group consisting of

- (1) hydrogen,
- (2) C1-10 alkyl,
- (3) Si-(R<sup>9</sup>)(R<sup>10</sup>)(R<sup>11</sup>),
- (4)  $C(=O)-R^{12}$ , wherein  $R^{12}$  is selected from the group consisting of
  - (a) C<sub>1-10</sub> alkyl,
  - (b) C<sub>1-10</sub> perfluoroalkyl, and
- (c) phenyl which is substituted or unsubstituted with one or more substituents selected from the group consisting of nitro, halogen,  $C_{1-10}$  alkyl, and  $C_{1-10}$  alkoxy.
- (5) CH2-phenyl, wherein said phenyl is unsubstituted or substituted with one or more substituents selected from the group consisting of nitro, halogen, C1-10 alkyl and C1-10 alkoxy,

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- (6) (CH2)p-O-(CH2)q-X'-R14,
- (7) tetrahyropyranyl,

wherein  $R^9$ ,  $R^{10}$  and  $R^{11}$  are each  $C_{1-10}$  alkyl or phenyl, and  $R^{14}$  is selected from the group consisting of

- (a) hydrogen,
- (b) C1-10 alkyl,

p is 1 or 2;

q is an integer selected from 1-10; and

X' is O or a bond:

to form a compound of formula (IV):

(B) deprotecting the compound of formula (IV) to form a compound of formula (V):

(C) reacting the compound of formula (V) with a compound of formula (VI):

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$$R^5$$
  $R^6$   $(VI)$ 

wherein R5 and R6 are each independently selected from the group consisting of

- (1) hydrogen,
- (2) C1-10 alkyl,
- (3) C3-8 cycloalkyl, and
- (4) (CH2)m phenyl,

wherein m is 0, 1 or 2, and

R7 is selected from the group consisting of

- (1) hydrogen, and
- (2) Si-(R9)(R10)(R11), wherein R9, R10 and R11 are each C1-10 alkyl or phenyl;

to give a compound of formula (VII):

(D) oxidizing the compound of formula (VII) to give a compound of formula (VIII):

(E) converting the compound of formula (VIII) to a compound of formula (IX):

$$R^{5}$$
 $H_{2N}$ 
 $H_{2N}$ 

and (F) converting the compound of formula (IX) to the compound of formula (IA).

- (original): The process of Claim 1 wherein R5 and R6 are methyl. 2.
- (original): The process of Claim 1 wherein R5 and R6 are phenyl. 3.
- (original): The process of Claim 1 wherein R3 is methoxy. 4.
- (original): The process of Claim 1 wherein R1 and R2 are hydrogen. 5.
- (original): The process of Claim 1 wherein R7 is trimethylsilyl. 6.
- 7. (original): The process of Claim 1 wherein X is hydrogen.

- 8. (original): The process of Claim 1 wherein X is fluoro.
- 9. (original): The process of Claim 1 wherein R4 is tert butyldimethylsilyl.
- 10. (original): A process for preparing a compound of formula (IA):

$$\begin{array}{c|c} O & \overset{H}{\overset{}{\overset{}\smile}} & X \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & &$$

wherein R1 and R2 are each selected from the group consisting of

- (1) hydrogen,
- (2) C1-10 alkyl,
- (3) C3-8 cycloalkyl, and
- (4) -(CH2)n -phenyl

wherein n is 1 or 2, and said alkyl, cycloalkyl and phenyl are unsubstituted or substituted with one or more halogen, hydroxy, C<sub>1-6</sub> alkyl or C<sub>1-6</sub> alkoxy;

X is selected from the group consisting of

- (1) halogen, and
- (2) hydrogen; and

pharmaceutically acceptable salts thereof;

comprising converting the compound of formula (IX):

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$$R^{\delta}$$
 $R^{\delta}$ 
 $H_{2}N$ 
 $CONH_{2}$ 
 $(IX)$ 

wherein R5 and R6 are each independently selected from the group consisting of

- (1) hydrogen,
- (2) C1-10 alkyl,
- (3) C3-8 cycloalkyl, and
- (4) (CH<sub>2</sub>)<sub>m</sub>-phenyl,

wherein m is 0, 1 or 2,

to the compound of formula (IA).

- 11. (original): The process of Claim 10 wherein R5 and R6 are methyl.
- 12. (original): The process of Claim 10 wherein R5 and R6 are phenyl.
- 13. (original): The process of Claim 10 wherein X is fluoro.
- 14. (original): The process of Claim 10 wherein X is hydrogen.
- 15. (currently amended): A process for preparing a compound of formula (II):

wherein R3 is selected from the group consisting of

- (1)-OH,
- (2) -O-Ra, and
- (3) -NRbRc,

wherein Ra is selected from the group consisting of

- (a) C1-10 alkyl, and
- (b) C3-8 cycloalkyl,

and Ra is unsubstituted or substituted with one or more

- (i) C1-10 alkoxy,
- (ii) hydroxy,
- (iii) halogen,
- (iv) SRd.
- (v) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen,
- (vi) heteroaryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (vii) NReRf;

Rb, Rc, Re and Rf are selected from the group consisting of

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- (a) hydrogen,
- (b) C<sub>1-10</sub> alkyl, and
- (c) C3-8 cycloalkyl,

and when  $R^b$ ,  $R^c$ ,  $R^c$  or  $R^f$  are  $C_{1-10}$  alkyl or  $C_{3-8}$  cycloalkyl, said  $C_{1-10}$  alkyl and  $C_{3-8}$  cycloalkyl are unsubstituted or substituted with one or more

- (i) hydroxy,
- (ii) C1-10 alkoxy,
- (iii) SRd,
- (iv) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (v) heteroaryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>
   alkoxy, C<sub>1-10</sub> alkyl or halogen, and
- (vi) NRgRh;

wherein Rg and Rh are hydrogen, C1-10 alkyl or C3-8 cycloalkyl;

or Rb and RC, together with the N atom to which they are attached, form a group

wherein r is 1 or 2, and the NR<sup>b</sup>R<sup>c</sup> group may be unsubstituted or substituted at the ring carbon atoms by one or more

(i) hydroxy,

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- (ii) C<sub>1-10</sub> alkoxy,
- (iii) SRd,
- (iv) aryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>
   alkoxy, C<sub>1-10</sub> alkyl or halogen, and
- (v) heteroaryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (vi) NRgRh,

Rd is hydrogen or C1-10 alkyl;

X is selected from the group consisting of

- (1) halogen, and
- (2) hydrogen;

R4 is selected from the group consisting of

- (1) hydrogen,
- (2) C1-10 alkyl,
- (3) Si-(R9)(R10)(R11),
- (4) C(=O)-R12, wherein R12 is selected from the group consisting of
  - (a) C<sub>1-10</sub> alkyl,
  - (b) C<sub>1-10</sub> perfluoroalkyl, and
  - (c) phenyl which is substituted or unsubstituted with one or more substituents selected from the group consisting of nitro, halogen,  $C_{1-10}$  alkyl, and  $C_{1-10}$  alkoxy,

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(5) CH<sub>2</sub>-phenyl, wherein said phenyl is unsubstituted or substituted with one or more substituents selected from the group consisting of nitro, halogen, C<sub>1-10</sub> alkyl and C<sub>1-10</sub> alkoxy,

- (6) (CH<sub>2</sub>)<sub>p</sub>-O-(CH<sub>2</sub>)<sub>q</sub> -X'-R<sup>14</sup>,
- (7) tetrahyropyranyl,

wherein  $R^9$ ,  $R^{10}$  and  $R^{11}$  are each  $C_{1-10}$  alkyl or phenyl, and  $R^{14}$  is selected from the group consisting of

- (a) hydrogen,
- (b) C1-10 alkyl,

p is 1 or 2;

q is an integer of from 1-10; and

X' is O or a bond;

comprising:

(A) converting a compound of formula (X):

to a compound of formula (XI):

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$$COR^3$$
 (XI)

and (B) reacting a compound of formula (XI) with a base in the presence of a Lewis acid to give a compound of formula (II).

(currently amended): The process of Claim 5-15 wherein the conversion of a compound
of formula (X) to

a compound of formula (XI) comprises the step of subjecting a compound of formula (X) to epoxidation in the presence of a peroxide source and a catalytic amount of VO(acae)2.

 (currently amended): The process of Claim 5-15 wherein the conversion of a compound of formula

(X) to a compound of formula (XI) comprises treating the compound of formula (X) with a halogenating agent, followed by treatment with a base.

- 18. (original): The process of Claim 15 wherein X is fluoro.
- 19. (original): The process of Claim 15 wherein X is hydrogen.
- (currently amended): The process of Claim \$15, further comprising the step of oxidizing
  the compound of formula (II) to form a compound of formula (IV)

- 21. (original): The process of Claim 20 wherein X is fluoro.
- 22. (original): The process of Claim 20 wherein X is hydrogen.
- 23. (currently amended): A process for preparing a compound of formula (XII)

wherein R<sup>3</sup> is selected from the group consisting of

- (1)-OH,
- (2) -O-Ra, and
- (3) -NRbRc,

wherein Ra is selected from the group consisting of

- (a) C1-10 alkyl, and
- (b) C3-8 cycloalkyl,

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and Ra is unsubstituted or substituted with one or more

- (i) C<sub>1-10</sub> alkoxy,
- (ii) hydroxy,
- (iii) halogen,
- (iv) SRd,
- (v) aryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>
   alkoxy, C<sub>1-10</sub> alkyl or halogen,
- (vi) heteroaryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (vii) NReRf;

Rb, Rc, Re and Rf are selected from the group consisting of

- (a) hydrogen,
- (b) C1-10 alkyl, and
- (c) C3-8 cycloalkyl,

and when Rb, Rc, Rc and Rf are  $C_{1-10}$  alkyl or  $C_{3-8}$  cycloalkyl, said  $C_{1-10}$  alkyl and  $C_{3-8}$  cycloalkyl are unsubstituted or substituted with one or more

- (i) hydroxy,
- (ii) C1-10 alkoxy,
- (iii) SRd,
- (iv) aryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>
   alkoxy, C<sub>1-10</sub> alkyl or halogen, and

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- (v) heteroaryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>
   alkoxy, C<sub>1-10</sub> alkyl or halogen, and
- (vi) NRgRh;

wherein Rg and Rh are hydrogen, C1-10 alkyl or C3-8 cycloalkyl;

or Rb and Rc, together with the N atom to which they are attached, form a group



wherein r is 1 or 2, and the NRbRC group may be unsubstituted or substituted at the ring carbon atoms by one or more

- (i) hydroxy,
- (ii) C<sub>1-10</sub> alkoxy,
- (iii) SRd,
- (iv) aryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>
   alkoxy, C<sub>1-10</sub> alkyl or halogen, and
- (v) heteroaryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (vi) NRgRh,

Rd is hydrogen or C1-10 alkyl;

X is selected from the group consisting of

(1) halogen, and

(2) hydrogen;

comprising:

(A) converting a compound of formula (II)

wherein R4 is selected from the group consisting of

- (1) hydrogen,
- (2) C<sub>1-10</sub> alkyl,
- (3) Si-(R9)(R10)(R11),
- (4) C(=O)-R12, wherein R12 is selected from the group consisting of
  - (a) C<sub>1-10</sub> alkyl,
  - (b) C<sub>1-10</sub> perfluoroalkyl, and
  - (c) phenyl which is substituted or unsubstituted with one or more substituents selected from the group consisting of nitro, halogen,  $C_{1-10}$  alkyl, and  $C_{1-10}$  alkoxy,
- (5) CH<sub>2</sub>-phenyl, wherein said phenyl is unsubstituted or substituted with one or more substituents selected from the group consisting of nitro, halogen, C<sub>1-10</sub> alkyl and C<sub>1-10</sub> alkoxy,
  - (6) (CH2)p-O-(CH2)q-X'-R14,
  - (7) tetrahyropyranyl,

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wherein  $R^9$ ,  $R^{10}$  and  $R^{11}$  are each  $C_{1-10}$  alkyl or phenyl, and  $R^{14}$  is selected from the group consisting of

- (a) hydrogen,
- (b) C1-10 alkyl,

p is 1 or 2;

q is an integer of from 1-10; and

X' is O or a bond;

to a compound of formula (XIII)

wherein R8 is selected from the group consisting of

- (1) halogen, and
- (2) O-SO<sub>2</sub>-R<sup>12</sup>, wherein R<sup>12</sup> is selected from the group consisting of
  - (a) C<sub>1-10</sub> alkyl,
  - (b) C<sub>1-10</sub> perfluoroalkyl, orand
  - (c) phenyl which is substituted or unsubstituted with one or more substituents selected from the group consisting of nitro, halogen,  $C_{1-10}$  alkyl,  $\sigma_{\text{Fand}} C_{1-10}$  alkoxy.
- (B) removing  $R^4$  to form a compound of formula (XIV)

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and (C) oxidizing the compound of formula (XIV) to form the compound of formula (XII).

- 24. (original): The process of claim 23 wherein R<sup>3</sup> is methoxy.
- 25. (currently amended): A process for preparing a compound of formula (XII')

wherein R<sup>3</sup> is selected from the group consisting of

- (1)-OH,
- (2) -O-Ra, and
- (3)-NRbRc,

wherein Ra is selected from the group consisting of

- (a) C1-10 alkyl, and
- (b) C3-8 cycloalkyl,

and Ra is unsubstituted or substituted with one or more

(i) C<sub>1-10</sub> alkoxy,

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- (ii) hydroxy,
- (iii) halogen,
- (iv) SRd,
- $(v) \qquad \text{aryl, unsubstituted or substituted with one or more hydroxy, $C_{1-10}$}$   $\text{alkoxy, $C_{1-10}$ alkyl or halogen,}$
- (vi) heteroaryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (vii) NReRf;

Rb, and Rc, Re and Rf are selected from the group consisting of

- (a) hydrogen,
- (b) C1-10 alkyl, and
- (c) C3-8 cycloalkyl,

and when Rb, Rc, Re and Rf are  $C_{1-10}$  alkyl or  $C_{3-8}$  cycloalkyl, said  $C_{1-10}$  alkyl and  $C_{3-8}$  cycloalkyl are unsubstituted or substituted with one or more

- (i) hydroxy,
- (ii) C<sub>1-10</sub> alkoxy,
- (iii) SRd,
- (iv) aryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>alkoxy, C<sub>1-10</sub> alkyl or halogen,
- (v) heteroaryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>
   alkoxy, C<sub>1-10</sub> alkyl or halogen, and
- (vi) NRgRh;

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wherein R8 and  $R^{\mbox{\scriptsize h}}$  are selected from the group consisting of hydrogen,  $C_{\mbox{\scriptsize 1-10}}$  alkyl or

Rd is hydrogen or C1-10 alkyl;

C3-8 cycloalkyl;

or Rb and Rc, together with the N atom to which they are attached, form a group

wherein r is 1 or 2, and the  $NR^bR^c$  group may be unsubstituted or substituted at the ring carbon atoms by one or more

- (i) hydroxy,
- (ii) C1-10 alkoxy,
- (iii) SRd,
- (iv) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (v) heteroaryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (vi) NRgRh,

X is selected from the group consisting of

- (1) halogen, and
- (2) hydrogen; and

R4 is selected from the group consisting of

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- (1) hydrogen,
- (2) C<sub>1-10</sub> alkyl,
- (3) Si-(R9)(R10)(R11),
- (4) C(=O)-R12, wherein R12 is selected from the group consisting of
  - (a) C1-10 alkyl,
  - (b) C<sub>1-10</sub> perfluoroalkyl, and
- (c) phenyl which is substituted or unsubstituted with one or more substituents selected from the group consisting of nitro, halogen,  $C_{1-10}$  alkyl, and  $C_{1-10}$  alkoxy.
- (5) CH<sub>2</sub>-phenyl, wherein said phenyl is unsubstituted or substituted with one or more substituents selected from the group consisting of nitro, halogen,  $C_{1-10}$  and  $C_{1-10}$  alkoxy,
- (6) (CH<sub>2</sub>)<sub>p</sub>-O-(CH<sub>2</sub>)<sub>q</sub> -X'-R<sup>14</sup>,
- (7) tetrahyropyranyl,

wherein  $R^9$ ,  $R^{10}$  and  $R^{11}$  are each  $C_{1\text{--}10}$  alkyl or phenyl, and  $R^{14}$  is selected from the group consisting of

- (a) hydrogen,
- (b) C1-10 alkyl;

p is 1 or 2;

g is an integer of from 1-10; and

X' is O or a bond;

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comprising converting a compound of formula (IV)

to a compound of formula (XII').

26. (original): A compound of formula (VII):

wherein R3 is selected from the group consisting of

- (1) OH,
- (2) -O-Ra, and
- (3)-NRbRc,

wherein Ra is selected from the group consisting of

- (a) C1-10 alkyl, and
- (b) C3-8 cycloalkyl,

and Ra is unsubstituted or substituted with one or more

- (i) C<sub>1-10</sub> alkoxy,
- (ii) hydroxy,
- (iii) halogen,
- (iv) SRd,
- (v) aryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>
   alkoxy, C<sub>1-10</sub> alkyl or halogen,
- $(vi) \qquad \text{heteroaryl, unsubstituted or substituted with one or more hydroxy, $C_{1-10}$ alkoxy, $C_{1-10}$ alkyl or halogen, and}$
- (vii) NReRf;

Rb, Rc, Re and Rf are selected from the group consisting of

- (a) hydrogen,
- (b) C<sub>1-10</sub> alkyl, and
- (c) C3-8 cycloalkyl,

and when Rb, Rc, Re and Rf are  $C_{1-10}$  alkyl or  $C_{3-8}$  cycloalkyl, said  $C_{1-10}$  alkyl and  $C_{3-8}$  cycloalkyl are unsubstituted or substituted with one or more

- (i) hydroxy,
- (ii) C<sub>1-10</sub> alkoxy,
- (iii) SRd,
- (iv) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen,
- (v) heteroaryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>
   alkoxy, C<sub>1-10</sub> alkyl or halogen, and

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(vii) NRgRh;

wherein Rg and Rh are selected from the group consisting of hydrogen,  $C_{1-10}$  alkyl or  $C_{3-8}$  cycloalkyl

Rd is hydrogen or C1-10 alkyl;

or Rb and Rc, together with the N atom to which they are attached, form a group

wherein r is 1 or 2, and the  $NR^bR^c$  group may be unsubstituted or substituted at the ring carbon atoms by one or more

- (i) hydroxy,
- (ii) C<sub>1-10</sub> alkoxy,
- (iii) SRd,
- (iv) aryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>
   alkoxy, C<sub>1-10</sub> alkyl or halogen, and
- (v) heteroaryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (vi) NRgRh,

R5 and R6 are independently selected from the group consisting of

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- (1) hydrogen,
- (2) C1-10 alkyl,
- (3) C3-8 cycloalkyl, and
- (4) (CH<sub>2</sub>)<sub>m</sub>-phenyl,

wherein m is 0, 1 or 2; and

X is selected from the group consisting of

- (1) halogen, and
- (2) hydrogen;

and salts thereof.

27. (original): A compound of formula (VIII):

$$\mathbb{R}^{5} \xrightarrow{\overset{\mathbf{H}}{\longrightarrow} X} \mathbb{R}^{3}$$
 (VIII)

wherein R3 is selected from the group consisting of

- (1)-OH,
- (2) -O-Ra, and
- (3) -NRbRc.

wherein Ra is selected from the group consisting of

- (a) C1-10 alkyl, and
- (b) C3-8 cycloalkyl,

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and Ra is unsubstituted or substituted with one or more

- (i) C<sub>1-10</sub> alkoxy,
- (ii) hydroxy,
- (iii) halogen,
- (iv) SRd,
- (v) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen,
- (vi) heteroaryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>
   alkoxy, C<sub>1-10</sub> alkyl or halogen, and
- (vii) NReRf;

Rb, Rc, Re and Rf are selected from the group consisting of

- (a) hydrogen,
- (b) C1-10 alkyl, and
- (c) C3-8 cycloalkyl,

and when Rb, Rc, Re and Rf are  $C_{1-10}$  alkyl or  $C_{3-8}$  cycloalkyl, said  $C_{1-10}$  alkyl and  $C_{3-8}$  cycloalkyl are unsubstituted or substituted with one or more

- (i) hvdroxy,
- (ii) C1-10 alkoxy,
- (iii) SRd,
- (iv) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and

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(v) heteroaryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>
 alkoxy, C<sub>1-10</sub> alkyl or halogen, and

(vi) NRgRh;

wherein Rg and Rh are hydrogen, C1-10 alkyl or C3-8 cycloalkyl;

Rd is hydrogen or C1-10 alkyl;

or Rb and Rc, together with the N atom to which they are attached, form a group

wherein r is 1 or 2, and the NR  $^{\rm DR^c}$  group may be unsubstituted or substituted at the ring carbon atoms by one or more

- (i) hydroxy,
- (ii) C<sub>1-10</sub> alkoxy,
- (iii) SRd,
- (iv) aryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>
   alkoxy, C<sub>1-10</sub> alkyl or halogen, and
- $(v) \qquad \text{heteroaryl, unsubstituted or substituted with one or more hydroxy, $C_{1-10}$ alkoxy, $C_{1-10}$ alkyl or halogen, and}$
- (vi) NRgRh,

R5 and R6 are independently selected from the group consisting of

(1) hydrogen,

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- (2) C1-10 alkyl,
- (3) C3-8 cycloalkyl, and
- (4) (CH2)m phenyl,

wherein m is 0, 1 or 2; and

X is selected from the group consisting of

- (1) halogen, and
- (2) hydrogen;

and salts thereof.

28. (original): A compound of formula (IX):

$$R^{5}$$
 $H_{2}N^{7}$ 
 $CONH_{2}$ 
 $(IX)$ 

wherein R5 and R6 are independently selected from the group consisting of

- (1) hydrogen,
- (2) C1-10 alkyl,
- (3) C3-8 cycloalkyl, and
- (4) (CH<sub>2</sub>)<sub>m</sub>-phenyl,

wherein m is 0, 1 or 2; and

X is selected from the group consisting of

- (1) halogen, and
- (2) hydrogen;

and salts thereof.

### 29. (original): A compound of formula (XA):

wherein R3 is selected from the group consisting of

- (1)-OH,
- (2) -O-Ra, and
- (3)-NRbRc.

wherein Ra is selected from the group consisting of

- (a) C1-10 alkyl, and
- (b) C3-8 cycloalkyl,

and Ra is unsubstituted or substituted with one or more

- (i) C1-10 alkoxy,
- (ii) hydroxy,
- (iii) halogen,
- (iv) SRd,
- (v) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen,

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(vi) heteroaryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and

(vii) NReRf;

Rb, Rc, Re and Rf are selected from the group consisting of

- (a) hydrogen,
- (b) C<sub>1-10</sub> alkyl, and
- (c) C<sub>3-8</sub> cycloalkyl, and when Rb, Rc, Re and Rf are C<sub>1-10</sub> alkyl or C<sub>3-8</sub> cycloalkyl, said C<sub>1-10</sub> alkyl and C<sub>3-8</sub> cycloalkyl are unsubstituted or substituted with one or more
  - (i) hydroxy,
  - (ii) C1-10 alkoxy,
  - (iii) SRd,
  - (iv) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
  - (v) heteroaryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
  - (vi) NRgRh;

wherein Rg and Rh are hydrogen,  $C_{1-10}$  alkyl or  $C_{3-8}$  cycloalkyl; or Rb and RC, together with the N atom to which they are attached, form a group PRELIMINARY AMENDMENT U.S. Application No.: 10/578,476

wherein r is 1 or 2, and the NR<sup>b</sup>R<sup>c</sup> group may be unsubstituted or substituted at the ring carbon atoms by one or more

- (i) hydroxy,
- (ii) C<sub>1-10</sub> alkoxy,
- (iii) SRd.
- (iv) aryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>alkoxy, C<sub>1-10</sub> alkyl or halogen, and
- (v) heteroaryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (vi) NRgRh,

Rd is hydrogen or C1-10 alkyl;

and salts thereof.

30. (currently amended): A compound of formula (XI):

wherein R3 is selected from the group consisting of

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- (1)-OH,
- (2) -O-Ra, and
- (3)-NRbRc,

wherein Ra is selected from the group consisting of

- (a) C1-10 alkyl, and
- (b) C3-8 cycloalkyl,

and Ra is unsubstituted or substituted with one or more

- (i) C1-10 alkoxy,
- (ii) hydroxy,
- (iii) halogen,
- (iv) SRd.
- (v) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen,
- (vi) heteroaryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>
   alkoxy, C<sub>1-10</sub> alkyl or halogen, and
- (vii) NReRf;

Rb. Rc. Re and Rf are selected from the group consisting of

- (a) hydrogen,
- (b) C<sub>1-10</sub> alkyl, and
- (c) C3-8 cycloalkyl,

and when  $R^b$ ,  $R^c$ ,  $R^c$  and  $R^f$  are  $C_{1-10}$  alkyl or  $C_{3-8}$  cycloalkyl, said  $C_{1-10}$  alkyl and  $C_{3-8}$  cycloalkyl are unsubstituted or substituted with one or more

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- (i) hydroxy,
- (ii) C1-10 alkoxy,
- (iii) SRd,
- (iv) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (v) heteroaryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (vi) NRgRh;

wherein Rg and Rh are hydrogen, C1-10 alkyl or C3-8 cycloalkyl;

or Rb and Rc, together with the N atom to which they are attached, form a group

wherein r is 1 or 2, and the NR  $^{b}$ R $^{c}$  group may be unsubstituted or substituted at the ring carbon atoms by one or more

- (i) hydroxy,
- (ii) C<sub>1-10</sub> alkoxy,
- (iii) SRd.
- (iv) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (v) heteroaryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>
   alkoxy, C<sub>1-10</sub> alkyl or halogen, and

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(vi) NRgRh,

Rd is hydrogen or C1-10 alkyl;

R4 is selected from the group consisting of

- (1) hydrogen,
- (2) C<sub>1-10</sub> alkyl,
- (3)  $Si-(R^9)(R^{10})(R^{11})$ ,
- (4) C(=O)-R<sup>12</sup>, wherein R<sup>12</sup> is selected from the group consisting of
  - (a) C<sub>1-10</sub> alkyl,
  - (b) C<sub>1-10</sub> perfluoroalkyl, and
- \_\_\_\_\_(c) phenyl which is substituted or unsubstituted with one or more substituents selected from the group consisting of nitro, halogen,  $C_{1-10}$  alkyl, and  $C_{1-10}$  alkoy,
- (5) CH<sub>2</sub>-phenyl, wherein said phenyl is unsubstituted or substituted with one or more substituents selected from the group consisting of nitro, halogen, C<sub>1-10</sub> alkyl and C<sub>1-10</sub> alkoxy,
- (6) (CH<sub>2</sub>)<sub>p</sub>-O-(CH<sub>2</sub>)<sub>q</sub> -X'-R<sup>14</sup>,
- (7) tetrahyropyranyl,

wherein  $R^9$ ,  $R^{10}$  and  $R^{11}$  are each  $C_{1-10}$  alkyl or phenyl, and  $R^{14}$  is selected from the group consisting of

- (a) hydrogen,
- (b) C1-10 alkyl,

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p is 1 or 2;

q is an integer of from 1-10; and

X' is O or a bond;

X is selected from the group consisting of

- (1) halogen, and
- (2) hydrogen;

and salts thereof.

31. (currently amended): A compound of formula (IVA):

wherein X is selected from the group consisting of

- (1) halogen, and
- (2) hydrogen; and

R4 is selected from the group consisting of

- (1) hydrogen,
- (2) C<sub>1-10</sub> alkyl,
- (3) Si-(R9)(R10)(R11),
- (4) C(=O)-R<sup>12</sup>, wherein R<sup>12</sup> is selected from the group consisting of
  (a) C<sub>1-10</sub> alkyl,

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### (b) C<sub>1-10</sub> perfluoroalkyl, and

- (c) phenyl which is substituted or unsubstituted with one or more substituents selected from the group consisting of nitro, halogen, C<sub>1-10</sub> alkyl, and C<sub>1-10</sub> alkoxy,
- (5) CH2-phenyl, wherein said phenyl is unsubstituted or substituted with one or more substituents selected from the group consisting of nitro, halogen, C<sub>1-10</sub> alkyl and C<sub>1-10</sub> alkoxy,
- (6)  $(CH_2)_p$ -O- $(CH_2)_q$  -X'-R<sup>14</sup>, and
- (7) tetrahyropyranyl,

wherein  $R^9$ ,  $R^{10}$  and  $R^{11}$  are each  $C_{1-10}$  alkyl or phenyl, and  $R^{14}$  is selected from the group consisting of

- (a) hydrogen,
- (b) C1-10 alkyl,

p is 1 or 2;

q is an integer of from 1-10; and

X' is O or a bond;

and salts thereof.

32. (currently amended): A compound of formula (II):

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wherein R3 is selected from the group consisting of

- (1)-OH,
- (2) -O-Ra, and
- (3)-NRbRc,

wherein Ra is selected from the group consisting of

- (a) C1-10 alkyl, and
- (b) C3-8 cycloalkyl,

and Ra is unsubstituted or substituted with one or more

- (i) C<sub>1-10</sub> alkoxy,
- (ii) hydroxy,
- (iii) halogen,
- (iv) SRd,
- (v) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen,
- (vi) heteroaryl, unsubstituted or substituted with one or more hydroxy, C<sub>1-10</sub>
   alkoxy, C<sub>1-10</sub> alkyl or halogen, and
- (vii) NReRf;

Rb, Rc, Re and Rf are selected from the group consisting of

- (a) hydrogen,
- (b) C<sub>1-10</sub> alkyl, and
- (c) C3-8 cycloalkyl,

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and when Rb, Re, Re and Rf are  $C_{1-10}$  alkyl or  $C_{3-8}$  cycloalkyl, said  $C_{1-10}$  alkyl and  $C_{3-8}$  cycloalkyl are unsubstituted or substituted with one or more

- (i) hydroxy,
- (ii) C<sub>1-10</sub> alkoxy,
- (iii) SRd,
- (iv) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$

alkoxy, C1-10 alkyl or halogen, and

- (v) heteroaryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (vi) NRgRh;

wherein Rg and Rh are hydrogen, C<sub>1-10</sub> alkyl or C<sub>3-8</sub> cycloalkyl; or Rb and RC, together with the N atom to which they are attached, form a group

wherein r is 1 or 2, and the NR $^b$ R $^c$  group may be unsubstituted or substituted at the ring carbon atoms by one or more

- (i) hydroxy,
- (ii) C<sub>1-10</sub> alkoxy,
- (iii) SRd,

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(iv) aryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and

- (v) heteroaryl, unsubstituted or substituted with one or more hydroxy,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl or halogen, and
- (vi) NRgRh,

Rd is hydrogen or C1-10 alkyl;

R4 is selected from the group consisting of

- (1) hydrogen,
- (2) C1-10 alkyl,
- (3) Si-(R9)(R10)(R11),
- (4) C(=0)-R $^{12}$ , wherein  $R^{12}$  is selected from the group consisting of
  - (a) C<sub>1-10</sub> alkyl,
  - (b) C<sub>1-10</sub> perfluoroalkyl, and
- (c) phenyl which is substituted or unsubstituted with one or more substituents selected from the group consisting of nitro, halogen,  $C_{1-10}$  alkyl, and  $C_{1-10}$  alkoxy.
- (5) CH2-phenyl, wherein said phenyl is unsubstituted or substituted with one or more substituents selected from the group consisting of nitro, halogen, C1-10 alkyl and C1-10 alkoxy,
- (6) (CH2)n-O-(CH2)q-X'-R14, and

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(7) tetrahydropyranyl,

wherein R9, R10 and R11 are each C1-10 alkyl or phenyl, and

- R14 is selected from the group consisting of
  - (a) hydrogen,
  - (b) C<sub>1-10</sub> alkyl,

p is 1 or 2;

q is an integer of from 1-10; and

X' is O or a bond;

X is selected from the group consisting of

- (1) halogen, and
- (2) hydrogen;

and salts thereof.

33. (original): A compound which is:

34. (currently amended): A polymorphic form of the compound of Claim 34-33 wherein the polymorphic form has a d-spacing determined by x-ray powder diffraction, CuK alpha, of about 5.37 angstroms.

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35. (currently amended): The polymorphic form of Claim 3534, which has at least one additional d-spacing determined by x-ray powder diffraction, CuK alpha, of about 4.52, 4.05, 3.84, 3.37, 2.96, 2.73, 2.67, 2.59 or 2.42 angstroms.

36. (original): A polymorphic form of the compound of Claim 34, wherein the polymorphic form has a Differential Scanning Calorimetry extrapolated onset melting temperature of about 184°C.